

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

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1. (Currently Amended) A method comprising:
transmitting a communication stream with a first proportion of voice signals to data signals when a telephone coupled to receive the communication stream is in a first state, wherein the voice signal comprises a voice channel that includes both audio signals and [[control]] line signals corresponding to the voice channel; and
transmitting the communication stream with a second proportion of voice signals to data signals when the telephone is in a second state, wherein the voice signals [[signal]] includes line [[control]] signals corresponding to the voice channel and no audio signals from the telephone and further wherein bandwidth used for the audio signals when the telephone is in the first state is used for data signals when the telephone is in the second state.

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2. (Original) The method of claim 1 wherein the communication stream is transmitted according to a digital subscriber line (DSL) protocol.

3. (Original) The method of claim 2 wherein the DSL protocol comprises asynchronous DSL (ADSL).

4. (Currently Amended) The method of claim 1 wherein the voice channel in the first proportion comprises an 8-bit [[voice]] signal transmitted at 8 kHz and the line signals in the second proportion comprises a 1-bit [[voice]] signal transmitted at 8 kHz.

5. (Original) The method of claim 1 further comprising:
receiving a second communication stream with the first proportion of voice signals to data signals when the telephone is in the first state; and
receiving the second communication stream with the second proportion of voice signals to data signals when the telephone is in the second state.

6. (Currently Amended) An article comprising a medium accessible by one or more electronic devices, the medium to provide content that, when accessed by the one or more electronic devices, cause the one or more electronic devices to:
transmit a communication stream with a first proportion of voice signals to data signals when a telephone coupled to receive the communication stream is in a first state, wherein the voice signal comprises a voice channel that includes both audio signals and [[control]] line signals corresponding to the voice channel; and

transmit the communication stream with a second proportion of voice signals to data signals when the telephone is in a second state, wherein the voice signals [[signal]] includes line [[control]] signals corresponding to the voice channel and no audio signals

from the telephone and further wherein bandwidth used for the audio signals when the telephone is in the first state is used for data signals when the telephone is in the second state.

7. (Original) The article of claim 6 wherein the communication stream is transmitted according to a digital subscriber line (DSL) protocol.

8. (Original) The article of claim 7 wherein the DSL protocol comprises asynchronous DSL.

9. (Currently Amended) The article of claim 6 wherein the voice channel in the first proportion comprises an 8-bit [[voice]] signal transmitted at 8 kHz and the line signals in the second proportion comprises a 1-bit [[voice]] signal transmitted at 8 kHz.

10. (Original) The article of claim 6 further comprising content that, when accessed by the one or more electronic devices, cause the one or more electronic devices to:

receive a second communication stream with the first proportion of voice signals to data signals when the telephone is in the first state; and

receive the second communication stream with the second proportion of voice signals to data signals when the telephone is in the second state.

11. (Currently Amended) A propagated signal that carries content to one or more electronic devices, the propagated signal comprising a communication stream with a first proportion of voice signals to data signals when a telephone coupled to receive the communication stream is in a first state, wherein the voice signal comprises a voice channel that carries both sampled audio and line [[control]] signals and the communication stream having a second proportion of voice signals to data signals when the telephone is in a second state, wherein the voice signal includes line [[control]] signals and no audio signals from the telephone and further wherein bandwidth used for the sampled audio when the telephone is in the first state is used for data signals when the telephone is in the second state.

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12. (Original) The propagated signal of claim 11 wherein the communication stream is transmitted according to a digital subscriber line (DSL) protocol.

13. (Original) The propagated signal of claim 12 wherein the DSL protocol comprises asynchronous DSL.

14. (Currently Amended) The propagated signal of claim 11 wherein the voice channel in the first proportion comprises an 8-bit [[voice]] signal transmitted at 8 kHz and the line signals in the second proportion comprises a 1-bit [[voice]] signal transmitted at 8 kHz.

15. (Original) The propagated signal of claim 11 further comprising content that, when accessed by the one or more electronic devices, cause the one or more electronic devices to:

receive a second communication stream with the first proportion of voice signals to data signals when the telephone is in the first state; and

receive the second communication stream with the second proportion of voice signals to data signals when the telephone is in the second state.

16. (Currently Amended) An apparatus comprising:

a control circuit coupled to a telephone to determine whether the telephone is in a first state or in a second state, the control signal to generate one or more control signals to indicate the state of the telephone;

a framer coupled to the control circuit and to the telephone, the framer to allot a first bandwidth for telephone communication when the telephone is in the first state and to allot a second bandwidth for telephone communication when the telephone is in the second state, wherein the first bandwidth comprises a voice channel that includes a portion for audio signals and a portion for line signals and the second bandwidth comprises line signals and further wherein portion for audio signals is allotted for data transmission when the telephone is in the second state.

17. (Original) The apparatus of claim 16 wherein the first bandwidth comprises 8 kbit/sec and the second bandwidth comprises 64 kbit/sec.

18. (Original) The apparatus of claim 16 wherein the first state is an on-hook state and the second state is an off-hook state.

19. (Original) The apparatus of claim 16 wherein the framer further comprises:

a first multiplexor to receive signals from the telephone, the first multiplexor to pass the full signals from the telephone when the telephone is in the second state and to pass reduced signals when the telephone is in the first state; and

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a second multiplexor coupled to receive signals passed by the first multiplexor, the second multiplexor to pass the signals from the first multiplexor and to pass additional data signals, the additional data signals consuming a first bandwidth when the telephone is in the first state and a second bandwidth when the telephone is in the second state.

20. (Currently Amended) An apparatus comprising:

a control circuit coupled to a telephone to determine whether the telephone is in a first state or in a second state, the control signal to generate one or more control signals to indicate the state of the telephone; and

a framer to receive signals from a digital subscriber line (DSL) link, the framer to allot a first bandwidth to the telephone when the telephone is in the first state and to allot a second bandwidth to the telephone when the telephone is in the second state, wherein

the first bandwidth comprises a voice channel that includes a portion for audio signals and a portion for line signals and the second bandwidth comprises line signals and further wherein portion for audio signals is allotted for data transmission when the telephone is in the second state.

21. (Original) The apparatus of claim 20 wherein the first bandwidth comprises 8 kbits/sec and the second bandwidth comprises 64 kbits/sec.

22. (Original) The apparatus of claim 20 wherein the first state is an on-hook state and the second state is an off-hook state.

23. (Original) The apparatus of claim 20 wherein the framer further comprises:

a first demultiplexor to pass signals from the DSL link, the signals from the DSL link including data signals and voice signals, the data signals consuming a first bandwidth when the telephone is in the first state and a second bandwidth when the telephone is in the second state; and

a second demultiplexor coupled to receive signals passed by the first demultiplexor, the second demultiplexor to pass the signals from the first demultiplexor and to pass the full signals to the telephone when the telephone is in the second state and to pass reduced signals when the telephone is in the first state.

24. (Currently Amended) A framer comprising circuitry to pass signals between a digital subscriber line (DSL) link, a telephone and one or more data processing devices, the signals including data signals and voice signals, the framer to allot a first bandwidth to a telephone coupled to the framer when the telephone is in an off-hook condition and the framer to allot a second bandwidth to the telephone when the telephone is in an on-hook condition, wherein the first bandwidth comprises a voice channel that includes a portion for audio signals and a portion for line signals and the second bandwidth comprises line signals and further wherein portion for audio signals is allotted for data transmission when the telephone is in the on-hook condition.

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25. (Original) The framer of claim 24 wherein the first bandwidth is greater than the second bandwidth.

26. (Original) The framer of claim 24 wherein the first bandwidth comprises 64 kbit/sec.

27. (Original) The framer of claim 26 wherein the second bandwidth comprises 8 kbit/sec.

28. (Original) The framer of claim 24 further comprising:

a first multiplexor to pass a complete voice channel when the telephone is in the off-hook condition and to pass less than the complete voice channel when the telephone is in the on-hook condition;

a second multiplexor coupled to receive an output of the first multiplexor, the second multiplexor to pass variable amounts of data signal based on the condition of the telephone;

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a first demultiplexor to pass variable amounts of data signal based on the condition of the telephone; and

a second demultiplexor coupled to receive an output of the first demultiplexor, the second demultiplexor to pass a complete voice channel when the telephone is in the off-hook condition and to pass less than the complete voice channel when the telephone is in the on-hook condition.